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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,491	03/23/2004	Robert J. Zolla	87596PCW 3050	
7590 05/18/2006		EXAMINER		
Pamela R. Cro	cker		ROGERS,	SCOTT A
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Eastman Kodak Company			ART UNIT	PAPER NUMBER
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Rochester, NY 14650-2201			DATE MAILED: 05/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 3°C FR 1.35(a), in no evert, however, may a reply be limbly find If NO period for reply is appelled above, the maximum statutory period will apply and will expire SIX (5) MONTHS from the mailing date of this communication. Failure to reply within the set or centeded period for reply will by status, cause the application to become ABANDONE (36 U.S. C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any seamled plant to many application. Status 1) Responsive to communication(s) filed on 03 March 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1,2,6,8,12,13,17,19 and 21 Is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1,2,6,8,12,13,17,19 and 21 Is/are pending in the application. 4a) Claim(s) is/are allowed. Claim(s) is/are objected to by the Examiner. Claim(s) is/are objected to by the Examiner. Occlaim(s) is/are objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. Application Papers 9) The paper (s) is/are objected to by the Examiner. Application Papers 9) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some *c) Mone of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been re		Application No.	Applicant(s)				
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- The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Examinous domain to a many be abilitative under the provision of 37 CFR 1:36(a), no event, however, may a reply be limitely filed. If NO period for reply is appecified above, the maximum statutory period will apply and the spire SIX (5) MONTHS from the mailing date of this communication. Fallwitz for provision and the specified above, the maximum statutory over under application (20 st. S. C. § 13 st. C. § 14 st. C. § 13 st. C. § 14	Office Action Summary	Examiner	Art Unit				
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2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Notice of References Cited (PTO-892)							
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Application/Control Number: 10/807,491

Art Unit: 2625

Response to Arguments

Page 2

Applicant's arguments filed 03 March 2006 have been fully considered but they

are not persuasive.

Applicant argues with respect to claim 1 that neither Lowe et al nor Kim et al,

alone or in combination, teach the use of both colors at the same location of the

watermark pattern. However, amended claim 1 only requires "fewer than N colorants at

each spatial location of the watermark pattern". Therefore claim 1 still reads on the

combination of Kim and Lowe et al as set forth in the rejection.

Applicant also argues with respect to claim 17 that neither Lowe et al or Kim et

al, alone or in combination, teach exposing the watermark pattern to both the magenta

and yellow colorant-producing component at each spatial location of the watermark

pattern. However, amended claim 17 only requires the watermark pattern to not be

exposed "to the cyan colorant-producing component of the color recording medium at

each spatial location of the watermark pattern". Therefore claim 17 still reads on the

combination of Kim and Lowe et al as set forth in the rejection.

The terminal disclosure filed 03 March 2006 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al (US 2005/0167505 A1).

Kim et al disclose a method of recording a watermark pattern on a color recording medium that forms an image using a number N of colorants, the method comprising the step of forming the watermark pattern using at least two colorants, but fewer than N colorants at each spatial location of the watermark pattern (see paragraphs 9, 13, 18, and 60).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

<u>Claims 1, 2, 6, 8, 12, 17, 19, and 21</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over Lowe et al (US 2003/0012569 A1) in view of Kim et al (US 2005/0167505 A1).

Referring to claim 1:

Lowe et al disclose recording a watermark pattern on a recording medium (see abstract and paragraphs 8 an 11).

While Lowe et al disclose that the watermark may be polychromatic, they do not specifically disclose forming the watermark pattern on the recording medium using at least two colorants, but fewer than N colorants at each spatial location of the watermark pattern.

Kim et al disclose recording the watermark pattern (3-D code pattern) on a color recording medium using at least two colorants, but fewer than N colorants at each spatial location of the watermark pattern (see paragraphs 9, 13, 18, and 60).

It would have been obvious to one of ordinary skill in the art to have combined the watermark pattern forming application taught by Lowe et al with the color code pattern recording application taught by Kim et al in order to provide high-density and robust or redundant data embedding and thereby enable embedding of a relatively large amount of data and greater range of applications.

Referring to claim 2:

Lowe et al disclose forming the watermark pattern by applying exposure energy onto the recording medium (see paragraphs 11, 13 or 14).

Referring to claim 6:

Lowe et al disclose use of a photosensitive recording medium (see abstract and paragraph 8).

Referring to claim 8:

Lowe et al disclose the recording medium as a motion picture negative (see abstract and paragraph 12).

Referring to claim 12:

Lowe et al disclose the exposure energy as light (see paragraphs 11, 13 or 14).

Referring to claim 17:

Lowe et al disclose recording a watermark pattern on a photosensitive recording medium (see abstract and paragraphs 8 and 11).

Lowe et al does not specifically disclose the recording medium having at least a cyan colorant-producing component, a magenta colorant-producing component, and a yellow colorant-producing component, and does not disclose the step of exposing the watermark pattern to both the magenta colorant producing component and the yellow colorant producing component, but not to the cyan colorant producing component of the color recording medium at each spatial location of the watermark pattern.

Kim et al disclose recording a watermark pattern (3-D code pattern) on a color recording medium having at least a cyan colorant-producing component, a magenta colorant-producing component, and a yellow colorant-producing component (see paragraph 41). Kim et al further disclose the step of forming the watermark pattern on a recording medium using both a magenta colorant producing component and the yellow colorant producing component, but not a cyan colorant producing component at each spatial location of the watermark pattern (see paragraphs 9, 13, 18, and 60).

It would have been obvious to one of ordinary skill in the art to have combined the watermark pattern forming application taught by Lowe et al with the color code pattern recording application taught by Kim et al in order to provide high-density and robust or redundant data embedding on a color photosensitive recording medium

Art Unit: 2625

having multiple colorant producing components, thereby enable embedding of a relatively large amount of data and greater range of applications with such a recording medium.

Referring to claim 19:

Lowe et al disclose the step of forming a watermark pattern by exposure of the recording medium being performed prior to exposure of the recording medium to image content (see abstract and paragraph 11)

Referring to claim 21:

Lowe et al disclose the recording medium as a motion picture negative (see abstract and paragraph 12).

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lowe et al and Kim et al as applied to claim 2 above, and further in view of Allen et al (US 5118526 A).

Lowe et al and Kim et al do not disclose using heat as the applied exposure energy for forming a watermark pattern.

Allen et al teach application of exposure energy for forming a watermark pattern on a photosensitive recording medium (see abstract).

It would have been obvious to one of ordinary skill in the art to have adapted the combination of Lowe et al and Kim et al to form watermark patterns by application of heat energy in order to broaden application of the robust or redundant high-density data embedding technique to a common type of recording.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott A Rogers whose telephone number is 571-272-7467. The examiner can normally be reached Monday through Friday 6:00am-2:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Moore can be reached at 571-272-7437.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to TC2600 Customer Service at 571-272-2600. Official correspondence by facsimile should be sent to 571-273-8300. The USPTO contact Center phone numbers are 800-PTO-9199.

Application/Control Number: 10/807,491

Art Unit: 2625

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

08 May 2006

SCOTT ROGERS
PRIMARY EXAMINER

Page 8